

ESMERALDA COUNTY (continued)

biogenic), and there are questionable reports of oil shows from a well in the northern part of the county. Al Waibel (oral commun., 1985) reported methane in some geothermal wells in Fish Lake Valley, approximately T15N, R35E. No other surface or subsurface shows are known.

Well Data

CALIFORNIA EXCELSIOR CO.

McNitt Ranch No. 1

API no.: 27-009-04003

Permit no.: ES1

Location: sec. 27, T1S, R36E

Elevation: 4,900 ft

Completed: 1920

Status: D & A

Depth: 488 ft

Remarks: This well produced 500 GPM of water in 1957. It probably bottoms in Tertiary sedimentary rocks (Lintz, 1957a).

FISH LAKE MERGER OIL CO.

No. 1

API no.: 27-009-04002

Permit no.: ES2

Location: center, sec. 34, T1S, R36E

Elevation: 4,200 ft

Completed: Mar. 15, 1923

Status: P & A

Depth: 1,447 ft

Remarks: See Lintz (1957a, p. 41).

FISH LAKE OIL CO.

Coaldale Well

API no.: 27-009-04001

Permit no.: ES3

Location: sec. 12, T2N, R37E (?)

Completed: June 1925

Status: D & A

Depth: 5,218 ft

Remarks: Several gas pockets were encountered during drilling. This well bottomed in volcanic ash and decomposed granite (Lintz, 1957a, p. 41).

MONTE CRISTO OIL CO.

Wm. Wright No. 1

API no.: 27-009-05200

Permit no.: 131

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T5N, R37E

Elevation: 5,000 ft

Completed: July 21, 1971

Status: P & A

Depth: 4,776 ft

Logs:

Cal	450-4,759 ft
DL	1,200-4,770 ft
TS	1,000-4,771 ft
ES	1,300-4,771 ft
Nuclear	3,000-4,775 ft

Remarks: Oil and gas shows reported at 3,002-3,018 ft and 3,562-3,572 ft. Operator later changed to Toiyabe Oil.

NEVADA OIL & MINERALS, INC.

V.R.S. No. 1

API no.: 27-009-05201

Permit no.: 146

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T1S, R36E
400 ft from north line, 2,240 ft from east line

Elevation: 4,754 ft

Completed: Nov. 25, 1970

Status: P & A

Depth: 9,178 ft

Tops:

Surface	valley fill
5,000 ft	volc.

Logs:

Mud/lithologic	3,280-9,178 ft
TS	1,500-9,100 ft
ES	536-9,100 ft

Samples:

Cuttings	3,270-9,178 ft
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Remarks: Artesian water production at 580-790 ft (2,000 GPM at 1,400 PSI) and 1,150-1,400 ft (estimate of 500 GPM). Bottom-hole temperature 318°F.

WRIGHT EXPLORATION

Federal No. 26-1

API no.: 27-009-05202

Permit no.: 238

Location: SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T1N, R38E

Elevation: 4,960 ft

Completed: Aug. 13, 1979

Status: P & A

Depth: 5,666 ft

Tops:

5,000 ft	volc.(?)
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EUREKA COUNTY

The Blackburn field (fig. 6) in Pine Valley was the first Nevada oil field discovered outside of Railroad Valley. The discovery generated considerable petroleum exploration interest in Nevada, especially in areas outside of Railroad Valley.

Little exploratory drilling had been done in Eureka County before the discovery of the Blackburn field in 1982, even though Nevada's best-known oil seep, the Bruffey seep, known for over 50 years, is only 4 miles east of the field. Four exploratory wells elsewhere in the county have shows reported.

Surface occurrences of oil or solid bitumen are reported in several localities. The Bruffey oil seep (SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T27N, R52E) and a nearby hydrocarbon gas seep (NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T27N, R52E) have been most recently described by Foster and others (1979), and the nearby (sec. 29?, T27N, R52E) Mineral Hill seep has been described by Poole and Claypool (1984). Solid bitumen veins in outcrop are known to the northeast in adjacent Elko County. Oil or tarry or solid bitumen occurrences in outcrop are known in Vinini Creek (secs. 9 and 17, T23N, R51E; Poole and Claypool, 1984), Eureka Canyon (sec. 36, T19N, R53E; Merriam and Anderson, 1942), Newark Canyon (approx sec. 13, T19N, R54E), and the Gibellini and Bisoni vanadium property (sec. 34, T16N, R52E; Desborough and others, 1979).

Blackburn Field Summary

Source of information: NBMG files.

Geology

Producing formation: Oligocene Indian Well Fm., Mississippian Chainman Sh., and Devonian Nevada Fm.

Trap type: structural-stratigraphic

Lithology of reservoir rock: Poorly welded porous tuffs, tuffaceous sandstones, and fractured calcareous dolomite.

Oldest formation penetrated: Devonian Nevada Fm.

Reservoir Data

Production area: 640 acres

Number of producing wells: 4

Number of abandoned wells: 1

Number of dry holes: 7

Porosity: Indian Well Fm.—17%, Nevada Fm.—5.3%, Chainman Sh.—(?)

Gas analysis: unknown, but low gas/oil ratio

Associated water analysis: (Nevada Fm., approximate average values) Na 500, K 51, Ca 56, Mg 12, Cl 520, SO₄ 250, HCO₃ 675 mg/L

Oil characteristics: gravity 27° API, pour point 30°F

Reservoir temperature: 250°F(?)

Discovery well

Amoco Production Co. Blackburn No. 3

SW¼SW¼ sec. 8, T27N, R52E

Date of completion: Mar. 16, 1982

Total depth: 7,955 ft

Initial production: flowed 346 BOPD and 767 BWPD

Perforations: 5,776-6,450 ft and 7,072-7,140 ft

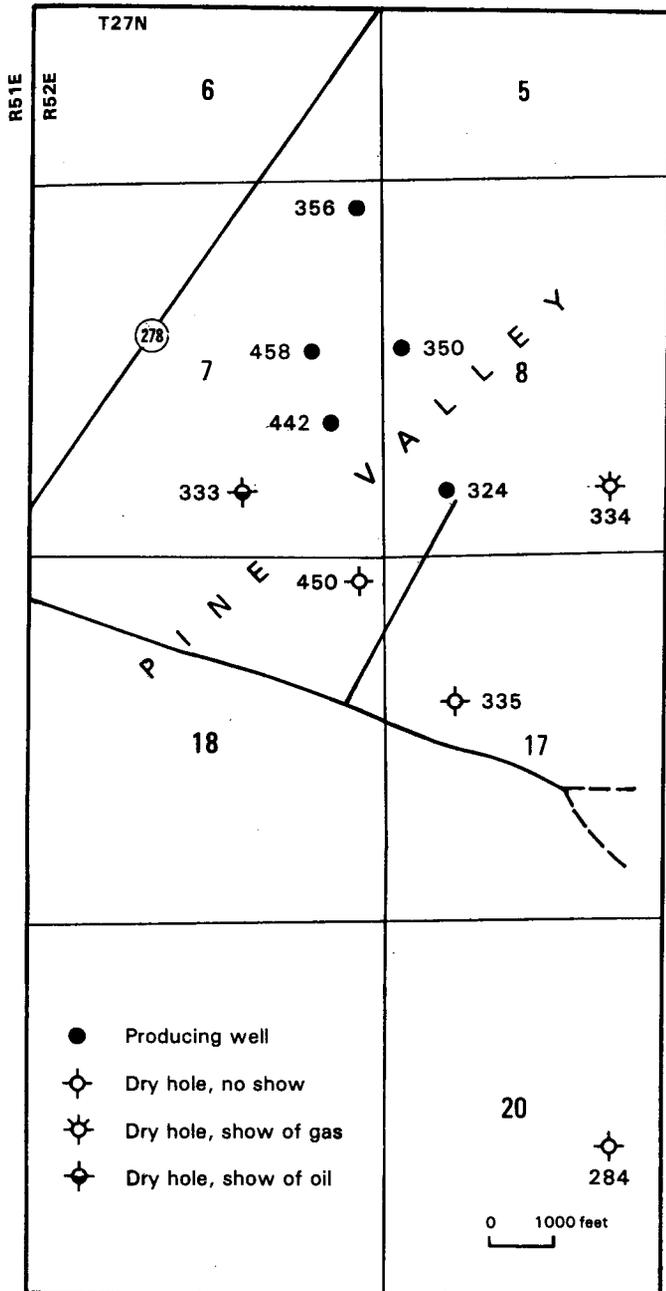


FIGURE 6.—Map of well locations identified by state permit number in the Blackburn field and vicinity, Eureka County.

Available information on the geology of the Blackburn field is quite incomplete. The trap is believed to be a combination unconformity-fault block type; dry holes drilled to the south and west of the field (fig. 6) are reportedly in blocks which are downdropped relative to the field; a fault probably also bounds the field to the northeast (Scott and others, 1987). Information on the field is summarized below and in figure 7.

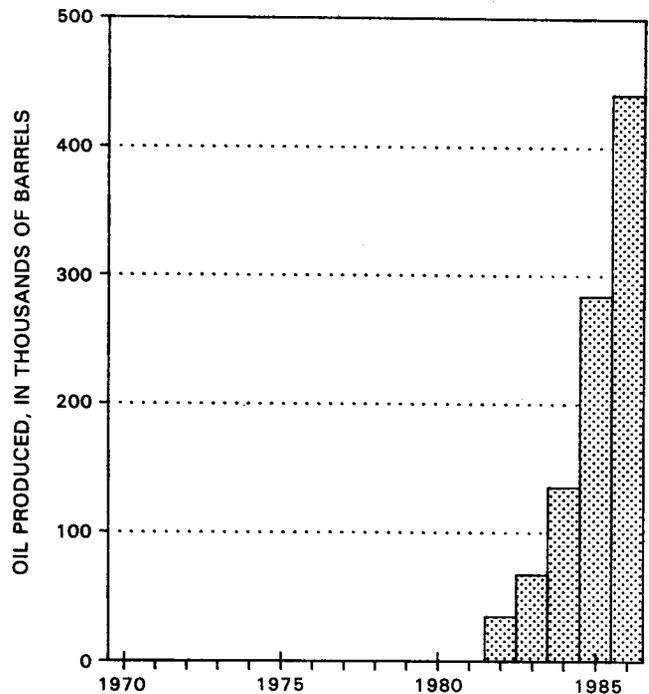


FIGURE 7.—Oil production of the Blackburn field.

EUREKA COUNTY (continued)**Well Data****AMOCO PRODUCTION CO.****Big Pole Creek No. 1**

API no.: 27-011-05209

Permit no.: 323

Location: center, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 35, T28N, R51E

1,980 ft from north line, 660 ft from west line

Elevation: 5,413 ft

Completed: June 24, 1982

Status: P & A

Depth: 8,300 ft

Logs:

Lithologic	85-8,300 ft
DI	86-7,449 ft
DM	1,949-8,292 ft
CNL/GR	1,949-8,292 ft
S/FIL	7,310-8,300 ft
BHCS/GR	86-8,288 ft
Directional	1,989-7,449 ft
DLL	7,300-8,294 ft
TS	86-1,947 ft
CNL/FDC	86-1,944 ft

Samples:

Cuttings 80-8,300 ft

Remarks: Oil and gas show in DST at 2,340-2,421 ft and oil show only at 5,312-5,374 ft. Other oil shows reported. Cretaceous Newark Canyon Fm. and Tertiary Indian Well Fm. reported present.

AMOCO PRODUCTION CO.**Blackburn No. 1**

API no.: 27-011-05205

Permit no.: 284

Location: NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T27N, R52E

1,980 ft from south line, 1,980 ft from east line

Elevation: 5,454 ft

Completed: Aug. 16, 1980

Status: P & A

Depth: 4,893 ft

Tops:

Surface	Quaternary valley fill
2,745 ft	Tertiary volcs.
3,188 ft	Tertiary(?) valley fill
4,749 ft	granite (to TD)

Logs:

CNL/FDC	65-4,892 ft
FIL	65-4,894 ft
BHCS	65-4,891 ft
DIL	55-4,889 ft
DM	1,640-4,895 ft

Samples:

Cuttings 0-4,890 ft

AMOCO PRODUCTION CO.**Blackburn No. 2**

API no.: 27-011-05207

Permit no.: 301

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T27N, R52E

785 ft from north line, 535 ft from west line

Elevation: 5,446 ft

Completed: Mar. 6, 1981

Status: P & A

Depth: 5,272 ft

Tops:

4,350 ft quartz monzonite

Logs:

FIL	73-5,186 ft
DM	73-5,186 ft
DIL/GR/SP	73-5,265 ft
CNL/FDC/GR	73-5,259 ft
BHCS	73-5,259 ft
TS	790-3,696 ft

Samples:

Cuttings 70-5,250 ft

AMOCO PRODUCTION CO.**Blackburn No. 3**

API no.: 27-011-05210

Permit no.: 324

Location: center, NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T27N, R52E

990 ft from south line, 990 ft from west line

Elevation: 5,305 ft

Completed: Mar. 16, 1982

Status: Producer

Field: Blackburn

Depth: 7,955 ft

Tops:

3,304 ft	Miocene basalt
3,658 ft	Miocene Humboldt Fm.
5,246 ft	Oligocene Indian Well Fm.
6,450 ft	Mississippian Chainman Sh.
7,120 ft	Devonian Nevada Fm.

Logs:

Lithologic	80-7,950 ft
GR	4,800-7,925 ft
DI	95-7,951 ft
FDL	4,800-7,867 ft
CBL	5,200-7,900 ft
TS	58-7,909 ft
Cal	1,548-5,550 ft
CNL/FDC	95-7,954 ft
BHCS	95-7,943 ft
FIL	4,800-7,956 ft
DM	1,608-7,956 ft
DLL	5,800-7,523 ft

Samples:

Cuttings 1,600-7,930 ft

Remarks: Oil zones at 7,072-7,140 ft and 5,776-6,450 ft. Numerous shows below 5,500 ft. Original flow of 346 BOPD (27° API) and 767 BWPD (Hotline Energy Reports, July 20, 1985).

AMOCO PRODUCTION CO.**Blackburn No. 4**

API no.: 27-011-05212

Permit no.: 333

Location: center, N $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T27N, R52E

990 ft from south line, 1,980 ft from east line

Elevation: 5,288 ft

Completed: Aug. 18, 1982

Status: P & A

Depth: 8,100 ft

Tops:

3,440 ft	Miocene basalt
4,090 ft	Tertiary Humboldt cgl.
5,870 ft	Tertiary Indian Well Fm.
7,303 ft	Mississippian Chainman Sh.
7,524 ft	Devonian Nevada Fm.

Logs:

Lithologic	1,000-8,100 ft
DLL	987-8,099 ft
DM	1,880-6,954 ft
TS	187-6,943 ft
DLL	987-8,099 ft

CNL/FDC 1,000-8,100 ft
BHCS 987-8,069 ft
Samples:
Cuttings 1,000-8,100 ft
Remarks: Oil show 7,326-7,558 ft.

AMOCO PRODUCTION CO.

Blackburn No. 5

API no.: 27-011-05213
Permit no.: 334
Location: center, N $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, T27N, R52E
990 ft from south line, 1,980 ft from east line
Elevation: 5,335 ft
Completed: Oct. 11, 1983
Status: P & A
Depth: 8,059 ft
Logs:

Lithologic 1,000-8,061 ft
DI 68-8,035 ft
BHCS 1,004-7,939 ft
GR 5,000-7,981 ft
CNL/FDC 3,350-8,009 ft
DM 1,004-7,940 ft

Samples:
Cuttings 67-8,060 ft

AMOCO PRODUCTION CO.

Blackburn No. 6

API no.: 27-011-05214
Permit no.: 335
Location: center, E $\frac{1}{2}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 17, T27N, R52E
1,980 ft from north line, 990 ft from west line
Elevation: 5,335 ft
Completed: Sept. 15, 1982
Status: P & A
Depth: 7,651 ft
Tops:

3,371 ft Tertiary basalt
4,535 ft Tertiary Humboldt cgl.
7,415 ft quartz monzonite

Logs:

Lithologic 1,050-7,651 ft
CNL/GR 1,047-7,647 ft
BHCS/GR 1,047-7,639 ft
TS 1,047-7,370 ft
FIL 1,047-7,650 ft
DI 1,047-7,646 ft
DM 1,068-7,642 ft
Directional 1,047-7,646 ft

Samples:
Cuttings 1,050-7,650 ft

AMOCO PRODUCTION CO.

Blackburn No. 10

API no.: 27-011-05216
Permit no.: 350
Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T27N, R52E
2,300 ft from north line, 600 ft from west line
Elevation: 5,292 ft
Completed: Sept. 22, 1983
Status: Producer
Field: Blackburn
Depth: 7,645 ft
Tops:

3,311 ft Miocene basalt
3,666 ft Miocene Humboldt Fm. (lacustrine)
4,412 ft Miocene Humboldt Fm.(cgl.)
5,346 ft Oligocene Indian Well Fm.

6,710 ft Mississippian Chainman Fm.
7,315 ft Devonian Nevada Fm.

Logs:

Lithologic 1,000-7,645 ft
CNL/GR 50-7,626 ft
DM 1,000-7,626 ft
DI 50-7,626 ft
TS 200-7,626 ft
S/GR 1,000-7,606 ft
BHCS/FIL/GR 3,300-7,610 ft
BHCS/GR 1,000-7,596 ft

Samples:

Cuttings 1,000-7,645 ft

Remarks: Producing zones: Indian Well tuffs; 5,660-5,726 ft, 5,746-5,870 ft, 6,090-6,170 ft. Chainman Sh.; 6,718-6,944 ft. Water analysis available at NBMG. Originally pumped 479 BOPD (Hotline Energy Reports, July 20, 1985).

AMOCO PRODUCTION CO.

Blackburn No. 12

API no.: 27-011-05218
Permit no.: 356
Location: center, NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, T27N, R52E
330 ft from north line, 330 ft from east line
Elevation: 5,275 ft
Completed: Jan. 1, 1984
Status: Water-disposal well
Depth: 8,426 ft
Tops:

Surface Quaternary alluvium
3,362 ft Miocene basalt
3,686 ft Miocene Humboldt Fm.
5,428 ft Oligocene Indian Well Fm.
7,703 ft Mississippian Chainman Sh.
8,134 ft Devonian Nevada Fm.

Logs:

Lithologic 1,000-8,426 ft
BHCS/GR 1,002-8,422 ft
BHCS/FIL/GR 5,000-8,422 ft
CNL/GR 1,002-8,394 ft
DM 1,010-8,420 ft
Directional 1,010-8,420 ft
DI/GR 1,002-8,427 ft
DLL 6,000-8,420 ft

Samples:

Cuttings 1,000-8,426 ft

Remarks: Oil shows in the Indian Well Fm. and Chainman Sh. Water injection into Oxyoke Canyon Ss. Mbr. of the Nevada Fm.

AMOCO PRODUCTION CO.

Blackburn No. 14

API no.: 27-011-05230
Permit no.: 442
Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T27N, R52E
2,200 ft from south line, 330 ft from east line
Elevation: 5,290 ft
Completed: July 4, 1985
Status: Producer
Field: Blackburn
Depth: 7,210 ft
Tops:

3,293 ft Miocene basalt
3,487 ft Miocene Humboldt Fm.
5,208 ft Oligocene Indian Well Fm.
6,526 ft Mississippian Chainman Fm.
6,986 ft Devonian Nevada Fm.

Logs:

Lithologic 992-7,210 ft

EUREKA COUNTY (continued)

DI 992-7,200 ft
 DLL 992-7,195 ft
 LSS 992-7,198 ft
 GR 992-7,175 ft
 CNL/FDC 992-7,207 ft
 TS 100-4,440 ft
 DM 992-7,185 ft
 MLL 992-7,195 ft

Samples:

Cuttings 990-7,210 ft

Remarks: Producing zone at 6,950-7,034 ft originally flowed 700 BOPD. Permit no. 433 (API no. 27-011-05229) has been cancelled. This well's permit number and API number replace the cancelled permit. This was done to reduce the chance of well-name confusion.

AMOCO PRODUCTION CO.**Blackburn No. 15**

API no.: 27-011-05231

Permit no.: 450

Location: center, NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T27N, R52E
 330 ft from north line, 330 ft from east line

Elevation: 5,308 ft

Completed: Nov. 18, 1985

Status: P & A

Depth: 7,567 ft

Tops:

3,339 ft	Miocene basalt
3,632 ft	Miocene Humboldt Fm.
5,602 ft	Oligocene Indian Well Fm.
7,330 ft	Devonian Oxyoke Canyon Ss. Mbr. of Nevada Fm.

Logs:

Lithologic	1,040-7,567 ft
CNL/FDC	1,000-7,563 ft
GR	1,000-7,528 ft
LSS	3,000-7,444 ft
DLL	1,000-7,552 ft
DM	5,100-7,095 ft

Samples:

Cuttings 1,000-7,570 ft

AMOCO PRODUCTION CO.**Blackburn No. 16**

API no.: 27-011-05232

Permit no.: 458

Location: SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, T27N, R52E
 2,310 ft from north line, 950 ft from east line

Elevation: 5,291 ft

Completed: Dec. 12, 1985

Status: Producer

Field: Blackburn

Depth: 7,208 ft

Tops:

1,020 ft	Pliocene Hay Ranch Fm.
3,608 ft	Miocene basalt
3,790 ft	Miocene Humboldt Fm.
5,496 ft	Oligocene Indian Well Fm.
6,634 ft	Mississippian Chainman Fm.
6,796 ft	Devonian Nevada Fm.

Logs:

Lithologic	1,025-7,208 ft
BHCS	3,000-7,199 ft
GR	5,750-7,176 ft
DLL	1,023-7,196 ft
CNL/FDC	1,023-7,196 ft

DM 5,100-7,209 ft

Samples:

Cuttings 1,020-7,208 ft

Remarks: Producing at 6,959-7,012 ft (Nevada Fm.).

AMOCO PRODUCTION CO.**East Bailey Ranch No. 1**

API no.: 27-011-05219

Permit no.: 357

Location: center, NE $\frac{1}{4}$ sec. 8, T29N, R52E

1,320 ft from north line, 1,320 ft from east line

Elevation: 5,129 ft

Completed: May 19, 1984

Status: P & A

Depth: 9,000 ft

Tops:

4,410 ft	Tertiary Indian Well Fm.
6,630(?) ft	Cretaceous Newark Canyon Fm.
7,162 ft	Mississippian Chainman Fm.
8,700(?) ft	Devonian Devils Gate Ls.
8,750 ft	Devonian Nevada Fm.

Logs:

Lithologic	0-9,000 ft
BHCS	2,010-8,981 ft
DM	2,010-8,993 ft
Cyberlook	76-1,978 ft
DI	76-2,004 ft
CNL/FDC	76-8,989 ft
GR	2,010-8,932 ft
TS	2-8,710 ft
FIL	2,010-7,000 ft
DLL	4,000-8,990 ft

Samples:

Cuttings 0-9,000 ft

Remarks: Missing cuttings 4,700-6,400 ft. Oil shows between 6,180 and 8,520 ft.

AMOCO PRODUCTION CO.**East Henderson Creek No. 1**

API no.: 27-011-05228

Permit no.: 425

Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T25N, R51E

330 ft from south line, 330 ft from west line

Elevation: 5,699 ft

Completed: Mar. 31, 1985

Status: P & A

Depth: 10,977 ft

Tops:

Surface	Quaternary alluvium
2,018 ft	Oligocene Indian Well Fm.
3,848 ft	Permian Garden Valley Fm.
4,638 ft	Mississippian Chainman Fm.
8,251 ft	Devonian Devils Gate Ls.
8,830 ft	Devonian Nevada dol.
9,260 ft	Devonian Denay Ls.
9,380 ft	Devonian Nevada dol.
10,560 ft	Devonian Denay Ls./fault
10,615 ft	Oligocene Indian Well Fm.
10,730 ft	Devonian Oxyoke Canyon Ss. Mbr. of Nevada Fm.
10,889 ft	Devonian Denay Ls.

Logs:

Lithologic	100-10,977 ft
DLL	3,100-10,958 ft
TS	1-10,972 ft
DI	2,009-10,964 ft
GR	2,009-10,937 ft
LSS	117-1,991 ft
Cal	20-2,007 ft

DM 2,009-10,971 ft
CNL/FDC 2,009-10,969 ft
BHCS 117-10,938 ft
Cyberlook 3,200-10,958 ft

Samples:

Cuttings 120-10,977 ft

Remarks: Somewhat different Tops footages are listed in other data files at NBMG. Oil shows reported at 3,204-3,227 ft, 9,162-9,182 ft, and minor shows at 9,258 and 9,402 ft.

ASH, W. F.

Damele Brothers No. 2

API no.: 27-011-05201

Permit no.: 121

Location: NW¼NE¼SW¼ sec. 6, T26N, R51E

2,839 ft from north line, 1,372 ft from west line

Elevation: 5,640 ft

Completed: 1968 (?)

Status: D & A

Depth: 3,612 ft

Logs:

GR/N 27-3,300 ft
IES 2,816-3,610 ft
BHCS/GR 2,816-3,602 ft

BEYERBACK, CHARLES

(Moab Drilling Company) No. 1

API no.: 27-011-05006

Permit no.: 43

Location: NE¼NW¼SE¼ sec. 11, T27N, R52E

2,400 ft from south line, 1,350 ft from east line

Elevation: 5,610 ft

Completed: May 4, 1962

Status: D & A

Depth: 1,205 ft

Logs:

Lithologic 20-1,205 ft

Remarks: Traces of oil reported. Bortz (1985) reports that the well flowed 5 BOPD (1 day).

BOSWELL ENERGY CORP.

Big Pole Creek No. 1-11

API no.: 27-011-05227

Permit no.: 415

Location: SW¼NW¼NE¼ sec. 11, T27N, R51E

787 ft from north line, 2,317 ft from east line

Elevation: 5,374 ft

Completed: Jan. 30, 1985

Status: P & A

Depth: 8,217 ft

Tops:

Surface	Pliocene Hay Ranch Fm.
2,475 ft	Miocene basalt
2,497 ft	Miocene Humboldt Fm.
3,295 ft	Oligocene Indian Well Fm.
4,665 ft	Cretaceous Newark Canyon Fm.
6,250 ft	Jurassic Frenchie Creek Rhyolite
7,138 ft	Mississippian Diamond Peak Fm.
8,006 ft	Mississippian Chainman Fm.

Logs:

Lithologic 1,030-8,217 ft
BHCS 1,026-8,223 ft
DI 1,026-8,223 ft
CNL/FDC 1,026-8,223 ft
EP 4,600-8,217 ft
Directional 1,026-8,217 ft
Cyberlook 1,026-8,217 ft

Computer processed 5,600-8,200 ft

Samples:

Cuttings 1,030-8,217 ft.

CABANA OIL COMPANY

Federal No. 1-30

API no.: 27-011-05203

Permit no.: 273

Location: NW¼SW¼ sec. 30, T16N, R53E

1,900 ft from south line, 660 ft from west line

Elevation: 6,167 ft

Completed: Mar. 30, 1980

Status: J & A

Depth: 1,250 ft

Samples:

Cuttings 688-1,246 ft

Remarks: Lost circulation at 1,250 ft.

CARR AND WRATH, INC.

Federal No. 1

API no.: 27-011-05200

Permit no.: 117

Location: center, NE¼SW¼ sec. 6, T26N, R52E

1,980 ft from south line, 1,980 ft from west line

Elevation: 5,745 ft

Completed: Apr. 20, 1968

Status: P & A

Depth: 3,116 ft

Tops:

880 ft Tertiary volcanic cgl.
2,340 ft Tertiary volc.

Logs:

Lithologic 225-3,116 ft

DEPCO, INC.

Silver State Federal No. 33-18

API no.: 27-011-05208

Permit no.: 322

Location: NW¼NW¼SE¼ sec. 18, T20N, R50E

2,200 ft from south line, 3,200 ft from west line

Elevation: 6,112 ft at ground level, 6,126 at KB

Completed: Nov. 30, 1981

Status: P & A

Depth: 9,120 ft (from KB)

Logs:

DI 2,020-9,098 ft
BHC/GR 2,020-9,060 ft
CNL/FDC/GR 2,020-9,101 ft
DM 2,020-9,099 ft

Samples:

Cuttings 30-9,099 ft

DEPCO, INC.

Willow Wash Federal No. 42-24

API no.: 27-011-05225

Permit no.: 385

Location: SE¼NE¼ sec. 24, T21N, R49E

1,980 ft from north line, 660 ft from east line

Elevation: 6,210 ft

Completed: Oct. 24, 1984

Status: P & A

Depth: 7,834 ft

Tops:

7,197 ft Devonian Roberts Mountains Fm.
7,512 ft Silurian Hanson Creek Fm.
7,796 ft Ordovician Eureka Qtz.

Logs:

Lithologic 40-7,834 ft

EUREKA COUNTY (continued)

DI	61-7,823 ft
BHCS/GR/Cal	64-7,823 ft
CNL/FDC	3,562-7,829 ft
Electromagnetic thickness	1,700-3,509 ft
TS	1,612-3,760 ft
CBL	2,895-3,514 ft

Remarks: Oil shows at 1,580-2,190 ft.

EBERT, JAMES & NEPPLE, EDWARD**Government No. 1**

API no.: 27-011-05004

Permit no.: 19

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T27N, R52E

800 ft from south line, 800 ft from west line

Elevation: 5,450 ft

Completed: 1955

Status: D & A

Depth: 4,905 ft

Logs:

IES 146-4,904 ft

Samples:

Core chips 2,603-4,900 ft

EUREKA OIL & GAS COMPANY**Pine Valley No. 1**

API no.: 27-011-05055

Permit no.: EU1

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T27N, R52E

350 ft from south line, 2,390 ft from west line

Elevation: 5,693 ft

Completed: Aug. 15, 1952

Status: P & A

Depth: 1,848 ft

Remarks: Located near Bruffy Brothers oil seep. This was one of eight wells drilled by Eureka Oil Co., at the direction of Mr. George Hadley, in this immediate area. Seven of the holes spudded in Ordovician strata on the east side of a major north-south fault while one well was spudded on the west side of the fault in Tertiary and Quaternary valley fill. The majority of these wells are believed to be less than 600 ft deep. Hot springs occur along the fault zone locally. At Bruffy Brothers Ranch, petroleum-bearing waters ooze from contorted beds of the Ordovician Vinini shale (Lintz, 1957a, p. 42).

GETTY OIL COMPANY**Nost I No. 1**

API no.: 27-011-05202

Permit no.: 186

Location: center, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T28N, R52E

660 ft from north line, 1,980 ft from east line

Elevation: 5,284 ft

Completed: Mar. 26, 1977

Status: P & A

Depth: 10,505 ft

Tops:

Surface	Miocene to Pliocene
3,100 ft	Oligocene to Miocene
10,250 ft	Cretaceous

Logs:

Lithologic	40-10,505 ft
TS	930-9,442 ft
BHCS	1,048-9,455 ft
CNL/FDC	1,050-9,476 ft
PML	1,050-9,484 ft

DLL 100-9,453 ft

Samples:

Cuttings	40-10,500 ft
Core	5,987-9,777 ft (incomplete)

Remarks: Palynological and kerogen analyses are available at NBMG. Hydrocarbon source facies analysis available for 1,050-10,505 ft.

HUNT OIL COMPANY**Walter L. Plaskett No. 1**

API no.: 27-011-05204

Permit no.: 282

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T21N, R53E

330 ft from north line, 330 ft from east line

Elevation: 5,881 ft

Completed: July 28, 1980

Status: P & A

Depth: 10,600 ft

Logs:

DI	1,072-10,575 ft
CNL/FDC	1,072-10,569 ft
BHCS	1,072-10,565 ft
Directional	1,058-10,173 ft
Proximity velocity	1,072-10,580 ft
TS	1,072-10,120 ft

Samples:

Cuttings	68-10,600 ft
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Remarks: Water analysis available on the DST at NBMG. Slight oil shows at 7,960-7,970 ft, and slight gas show at 8,010 and 8,020 ft (Petroleum Information).

HUNT OIL COMPANY OF NEVADA**Diamond Valley Federal No. 1-24**

API no.: 27-011-05206

Permit no.: 285

Location: center, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T24N, R53E

660 ft from north line, 660 ft from west line

Elevation: 5,780 ft

Completed: Oct. 24, 1980

Status: P & A

Depth: 8,900 ft

Tops (from PI):

1,070 ft	Tertiary
7,355 ft	Mississippian Chainman Sh.

Logs:

Lithologic	600-8,902 ft
DIL	1,112-8,882 ft
DM	1,112-8,882 ft
PML	1,112-8,886 ft
BHCS	1,112-8,875 ft
CNL/FDC	1,110-8,880 ft
Directional	1,116-8,560 ft

Samples:

Cuttings	7,030-8,580 ft
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HUNT OIL COMPANY OF NEVADA**Diamond Valley No. 1-11**

API no.: 27-011-05224

Permit no.: 370

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T21N, R53E

170 ft from north line, 580 ft from east line

Elevation: 5,880 ft

Completed: May 8, 1984

Status: P & A

Depth: 6,552 ft

Logs:

DLL/GR	1,000-6,549 ft
FDC/CNL	1,000-6,549 ft

S/Monitor 500-6,547 ft
LSS/Digit 1,000-6,545 ft
Cyberdip 1,000-6,538 ft
Check shot/DM 1,000-6,538 ft
GR 1,000-6,505 ft

Samples:
Cuttings 1,050-6,552 ft

LAST FRONTIER OIL COMPANY

Damele No. 1

API no.: 27-011-05000
Permit no.: 1
Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T26N, R51E
Elevation: 5,496 ft
Completed: Mar. 2, 1961
Status: Water well
Depth: 3,549 ft
Samples:
Cuttings 0-3,351 ft
Remarks: Tertiary oil shows reported (Lintz, 1957a). Well was deepened to final depth in 1962.

SHELL OIL CO.

Diamond Valley Unit No. 1

API no.: 27-011-05056
Permit no.: 29
Location: center, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T23N, R54E
660 ft from north line, 1,877 ft from west line
Elevation: 5,800 ft
Completed: Oct. 27, 1956
Status: P & A
Depth: 8,042 ft
Tops:
Surface valley fill
7,500(?) ft Paleozoic ls. and dol.
Logs:
Drilling/Lithologic 0-8,042 ft
IES 650-8,040 ft
GR/N 650-8,040 ft
DM 650-8,040 ft
Samples:
Core chips 2,401-7,789 ft (incomplete)
Remarks: Gas shows reported.

TAYLOR, JACK

Government No. 1

API no.: 27-011-05002
Permit no.: 57
Location: center, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T27N, R50E
Elevation: 5,675 ft
Completed: Nov. 13, 1961
Status: D & A
Depth: 420 ft
Tops (from PI):
Surface Tertiary
Remarks: Located approximately 14 miles west of Blackburn field.

TAYLOR, JACK

Government No. 2

API no.: 27-011-05003
Permit no.: 65
Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T27N, R50E
Elevation: 5,585 ft
Completed: Aug. 18, 1962
Status: D & A
Depth: 1,024 ft

Tops:

Surface Tertiary
Remarks: Located approximately 14 miles west of Blackburn field.

TAYLOR, JACK

Government No. 3

API no.: 27-011-05010
Permit no.: 66
Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T27N, R50E
Elevation: 5,600 ft
Completed: Jan. 1, 1964
Status: D & A
Depth: 3,828 ft
Tops (from PI):
2,790 ft Tertiary
2,860 ft Cretaceous
3,000 ft Jurassic
3,120 ft Triassic
3,200 ft Permian
3,270 ft Pennsylvanian
3,600 ft Mississippian
3,680 ft Silurian
3,700 ft Ordovician

Remarks: Located approximately 14 miles west of Blackburn field.

HUMBOLDT COUNTY

Petroleum exploration in Humboldt County is quite limited; only five wells have been drilled, and two of those were drilled in the early 1900's. Oil shows are reported from several of the wells but some of these reports may not be valid. The deepest well drilled in the county is Sun Exploration and Production Co. King Lear Federal No. 1-17 with a total depth of 7,931 ft. This well, drilled in the Black Rock Desert in 1983, had oil and gas shows while drilling and in core samples.

No surface occurrences of hydrocarbons are known in the county and most of the pre-Cretaceous source rocks have probably been heated beyond temperatures at which hydrocarbons are generated and preserved (Harris and others, 1980; Sandberg, 1983). Cretaceous and younger rocks might be potential sources of petroleum where buried deep enough in basins in southern Humboldt County (Willden, 1979).

Well Data

BLACK ROCK OIL, GAS, REFINING & DEVELOPMENT CO.

No. 1

API no.: 27-013-05000
Permit no.: HU2
Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T35N, R29E
Completed: Dec. 1921
Status: P & A
Depth: 800 ft
Remarks: Drilled near the Western Pacific Railroad Co. Sulphur-M.P.474.67 well.

HUMBOLDT ASSOCIATES

Ellison No. 1

API no.: 27-013-05001